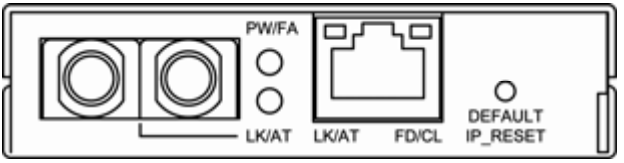
Quick Start Guide

This quick start guide describes how to install and use the Managed Media Converter.

Physical Description

The Port Status LEDs and Power Inputs



LEDs	State	Indication
PW/FA	Steady (Green)	Power on, PW = POWER
	Off	Power off
	Steady (Orange)	The device is booting up or failed FA = FAIL
LK/AT (Green)	Steady	A valid network connection established LK = LINK
	Flashing	Transmitting or receiving data AT = ACTIVITY
	Off	Valid network connection is not established and the Managed Media Converter is not transmitting data

FD/CL (Orange)	Steady	Connection in full-duplex mode FD = FULL-DUPLEX
	Flashing	Collision occurred CL = COLLISION
	Off	Connection in half-duplex mode

Physical Description

- One-channel media conversion between 10/100Base-TX and 100Base-FX
- Multi-mode fiber using SC, ST, VF-45, MT-RJ, or LC connector
- Single-mode fiber using SC or ST connector
- WDM single-fiber (bi-direction) transceiver, single-mode fiber using SC connector:
  - A type: WDM single-fiber (bi-direction) transceiver transmits with 1310nm wavelength and receives with 1550nm wavelength
  - B type: WDM single-fiber (bi-direction) transceiver transmits with 1550nm wavelength and receives with 1310nm wavelength
- Auto negotiation of speed and duplex mode on TX port
- Auto MDIX on TX port
- 1024 MAC addresses, 256K bits buffer memory
- One push button to reset the Managed Media Converter to default IP address
- Complies with IEEE802.3ah OAM CPE (Customer Premise Equipment) standard
- Supports VLAN & IEEE802.1Q Tagged VLAN
- Supports broadcast storm protection
- Provides MAC address filtering
- SNMP, Web-based, Telnet, and RMON management
- Alarm by Mail-Trap and SNMP-Trap

- TFTP firmware-upgrade capability
- Non-blocking full wire-speed forwarding rate
- Back-pressure & IEEE802.3x compliant flow control
- Front panel status LEDs
- 12VDC DC Jack power input, external AC to DC power adapter
- Used as a stand-alone device

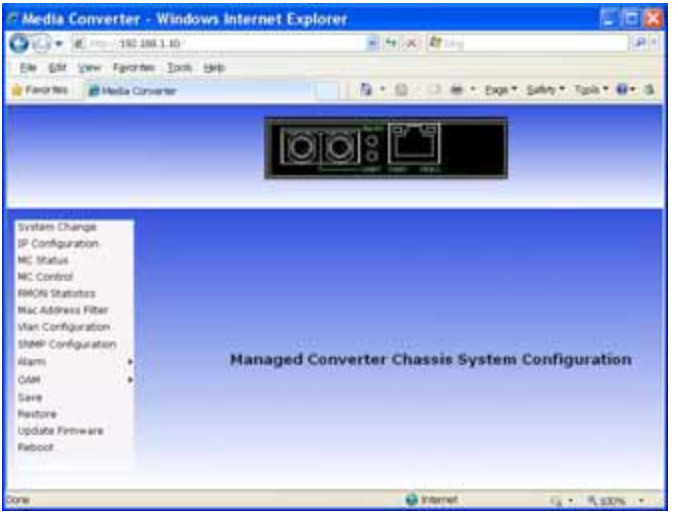
Web Configuration

- Login the Managed Media Converter:

Specify the default IP address (192.168.1.10) of the Managed Media Converter in the web browser. A login window will be shown as below:

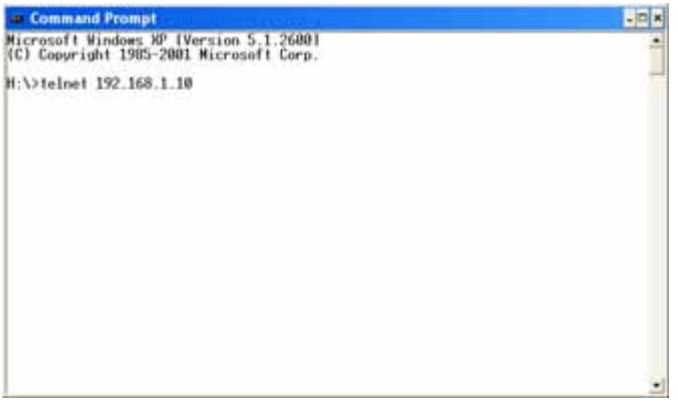
Connect to 192.168.1.10
The server 192.168.1.10 at MC Chassis requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
Password:
Remember my password
OK
Cancel

- Enter the factory default user name (no user name). Enter the factory default password (no password). Then click on the “OK” button to log on to the Managed Media Converter.

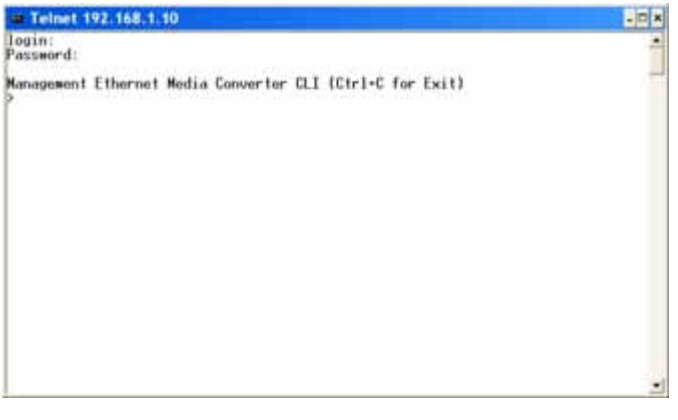


Telnet Configuration

- Start a Telnet session and login to the Managed Media Converter if you use Telnet to manage the Managed Media Converter. The default IP address of the Managed Media Converter is (192.168.1.10). Telnet to Managed Media Converter using “telnet 192.168.1.10” command.



- Default login is “null” and default password is “null”.



- Type in “?” or “h” to get help screen for all of the Telnet commands.

Preface

The Managed Media Converter can be monitored and configured, through management via SNMP, Web-based, and Telnet.

This manual describes how to configure the Managed Media Converter. To get the most out of this manual, you should have an understanding of networking concepts such as bridging, IEEE 802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/100Base-FX Fast Ethernet, and local area networks (LANs).

In this manual, you will find:

- Product overview
- Features of the media converter
- Illustrative LED functions
- Installation instructions
- System configuration
- Technical specification

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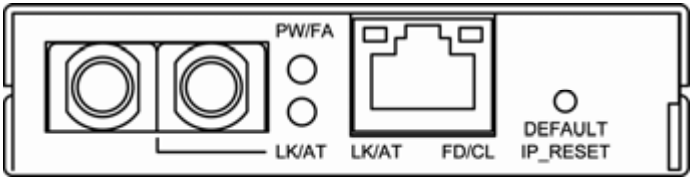
Introduction

The Managed Media Converter provides one channel for media conversion between 10/100Base-TX and 100Base-FX. It can be used as a stand-alone device.

Product Overview



Product Features

- One-channel media conversion between 10/100Base-TX and 100Base-FX
- Multi-mode fiber using SC, ST, VF-45, MT-RJ, or LC connector
- Single-mode fiber using SC or ST connector
- WDM single-fiber (bi-direction) transceiver, single-mode fiber using SC connector:
  - A type: WDM single-fiber (bi-direction) transceiver transmits with 1310nm wavelength and receives with 1550nm wavelength
  - B type: WDM single-fiber (bi-direction) transceiver transmits with 1550nm wavelength and receives with 1310nm wavelength
- Auto negotiation of speed and duplex mode on TX port
- Auto MDIX on TX port
- 1024 MAC addresses, 256K bits buffer memory
- One push button to reset the Managed Media Converter to

default IP address

- Complies with IEEE802.3ah OAM CPE (Customer Premise Equipment) standard
- Supports VLAN & IEEE802.1Q Tagged VLAN
- Supports broadcast storm protection
- Provides MAC address filtering
- SNMP, Web-based, Telnet, and RMON management
- Alarm by Mail-Trap and SNMP-Trap
- TFTP firmware-upgrade capability
- Non-blocking full wire-speed forwarding rate
- Back-pressure & IEEE802.3x compliant flow control
- Front panel status LEDs
- 12VDC DC Jack power input, external AC to DC power adapter
- Used as a stand-alone device

Packing List

When you unpack this product package, you will find the items listed below. Please inspect the contents, and report any apparent damage or missing items immediately to your authorized Etherwan reseller.

- The Media Converter
- User's Manual
- AC to DC Power Adaptor

One-Channel Media Converter

Ports

The Converter provides one TX port and one FX port.

The FX port may be specified in the following options:

Multi-mode fiber using SC, ST, VF-45, MT-RJ, or LC connector or

Single-mode fiber using SC or ST connector or

WDM fiber using single SC connector

The TX port is an RJ-45 connector and auto senses the speed of 10/100Mbps.

Front Panel & LEDs

LED Indicators

The LED indicators provide instant feedback on status of the converter:

LEDs	State	Indication
PW/FA	Steady (Green)	Power on, PW = POWER
	Off	Power off
	Steady (Orange)	The device is booting up or failed FA = FAIL
LK/AT (Green)	Steady	A valid network connection established LK = LINK
	Flashing	Transmitting or receiving data AT = ACTIVITY
	Off	Valid network connection is not established and the Managed Media Converter is not transmitting data
FD/CL (Orange)	Steady	Connection in full-duplex mode FD = FULL-DUPLEX
	Flashing	Collision occurred CL = COLLISION
	Off	Connection in half-duplex mode

Installation

This chapter gives step-by-step installation instructions for the Converter.

Selecting a Site for the Equipment

As with any electric device, you should place the equipment where it will not be subjected to extreme temperatures, humidity, or electromagnetic interference. Specifically, the site you select should meet the following requirements:

- The ambient temperature should be between 32 and 113 degrees Fahrenheit (0 to 45 degrees Celsius).
- The relative humidity should be less than 95 percent, non-condensing.
- Surrounding electrical devices should not exceed the electromagnetic field (RFC) standards for IEC 801-3, Level 2 (3V/M) field strength.
- Make sure that the equipment receives adequate ventilation. Do not block the ventilation holes on each side of the equipment.
- The power outlet should be within 1.8 meters of the product.
- The installer should wear a grounding strap connected to a solid electrical ground when handling the Converter and when plugging and unplugging the TX port connector.

Connecting to Power

Connect the supplied AC to DC power adaptor to the receptacle on the rear panel of the converter, and then attach the plug into a standard AC outlet.

DC 12V

System Configuration

This chapter provides network managers and system administrators with information about how to configure the Managed Media Converter via the Web Browser.

The reader of this document should be knowledgeable about network devices, device configuration, network management, and Internet browser. The user is assumed to be network administrator or manager with an understanding of network operations.

Web-Based Browser Interface

The Managed Media Converter is accessible using a Web browser (IE explorer, Netscape Communication, etc.) to open up the Managed Media Converter monitoring System.

NOTE: WEB browsers may be set to cache pages, which can cause the display of erroneous information. Should you observe a condition where it appears that you made changes but the changes are not being displayed on the screen, please close the WEB browser and login with a new session.

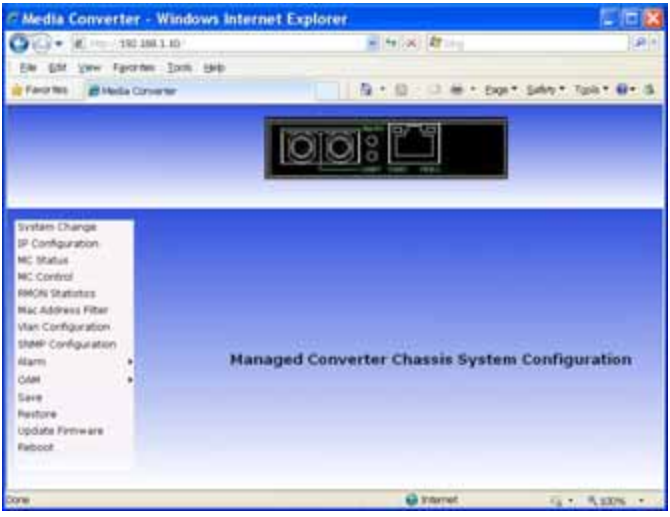
Logging on to the Managed Converter

The default IP Address for the Managed Media Converter is 192.168.1.10, and there is no need to type in a Login name or password. The default is a blank field for both. Simply press ‘ OK ‘ to start the Main Screen. Although the system displays a field for a user name, we do not use this field with the Managed Media Converter. You will notice there is a menu selection that allows the user to change the password but no mention of a user name. There is also no mention of how to logoff, when you have configured the Managed Media Converter. You simply close the

browser software; the Managed Media Converter will close the session and require a password when you open a new session.

Connect to 192.168.1.10
The server 192.168.1.10 at MC Chassis requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
Password:
Remember my password
OK
Cancel

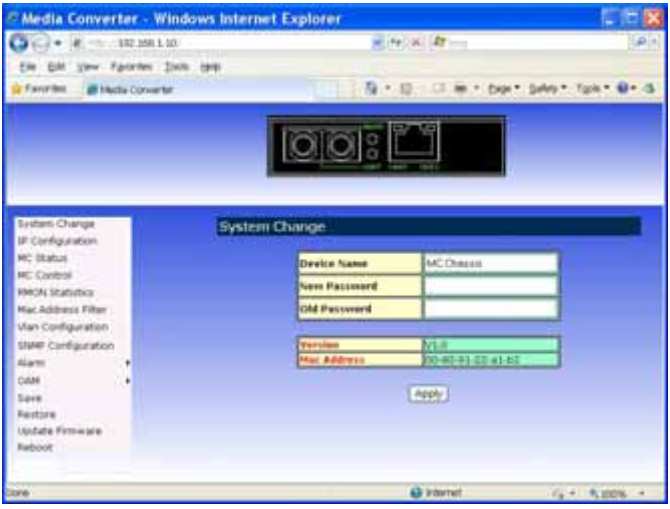
Main Menu



To select from the main menu, point the mouse cursor to the selection you want and click.

System Change

The following is a screen shot of the System Change Menu:



Device Name

The user may set a Device Name for this Managed Media Converter by typing a name into this field.

New Password

This field allows you to set a new password for login. Type a new password into this field.

Old Password

If you set a new password you must type the old password into this field. Press the Apply button to change the password.

NOTE: The apply button applies the changes for a specific screen, but does not save those changes to non-volatile memory. The user **MUST** select **SAVE** to store any and all changes to non-volatile memory before they end a management session.

Version

This is an indication of the Software version for reference.

MAC Address

The factory assigned MAC address for the Converter is displayed in this field.

IP Configuration

The following is a screen shot of the IP Configuration field:

DHCP

Set the DHCP ‘ Enable ‘ or ‘ Disable ‘. If DHCP is enabled the Managed Media Converter will obtain its IP address from a DHCP server. The IP obtained from a DHCP server will replace any IP that has been manually loaded.

NOTE: The user should be careful with DHCP because managing the Managed Media Converter depends on knowing its IP address. If a DHCP server has assigned the IP, it becomes a dynamic IP and managing the Managed Media Converter must then become a dynamic process or you will have to continually look up the address from the DHCP server.

IP Address

This field allows the user to set an IP address for the Managed Media Converter. The default IP is 192.168.1.10.

Netmask

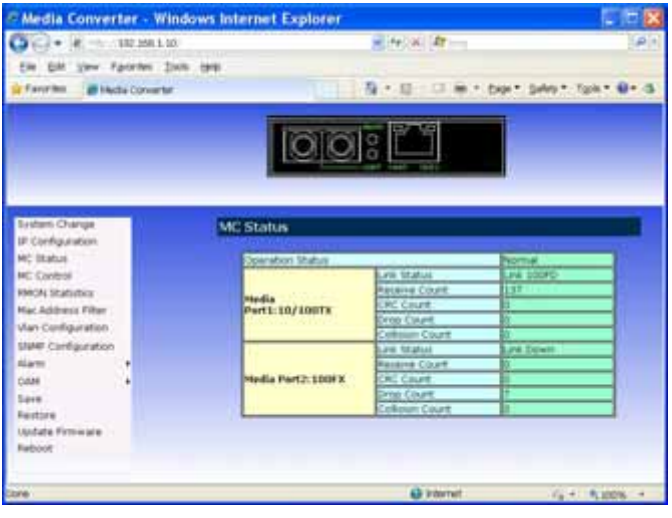
The user may set the Netmask or subnet mask. The default is 255.255.255.0.

Default Gateway

This is the address of a gateway, if present in your network. The default is 192.168.1.254.

NOTE: Pressing the Apply button will apply the settings on this screen to the Managed Media Converter. You must press Save to store these settings to non-volatile memory.

Media Converter Status



Operation Status

Normal, Hardware fault or Software fault

Media Port1: 10/100TX

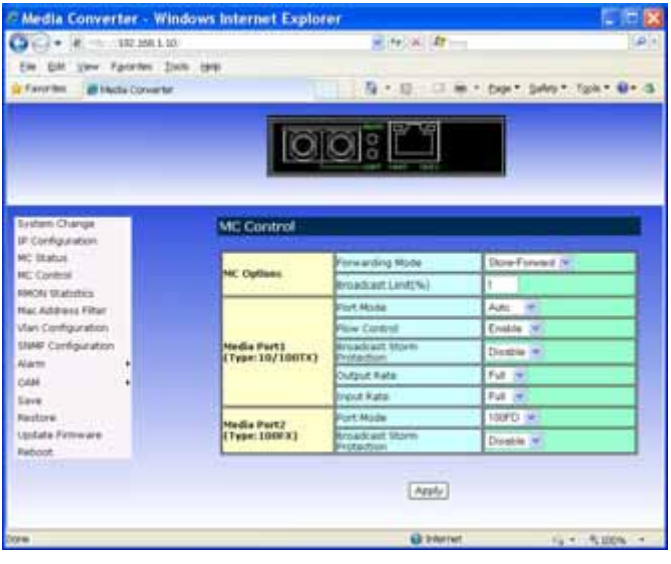
Link Status, Receive Count, CRC Count, Drop Count or Collision Count

Media Port2: 100FX

Link Status, Receive Count, CRC Count, Drop Count or Collision Count

NOTE: If the Status needs to be calculated from fresh, please press the *Reset* button to restart the counting.

Media Converter Control



MC Options

Forwarding Mode: Store-Forward or Repeater.

Broadcast Limit (%): Enter a limit for how much of the bandwidth is allowed to be consumed by broadcast traffic passing through the media converter. This limit will be used in conjunction with Broadcast Storm Protection below. If Broadcast Storm Protection is Enabled, for either port, this limit will be applied to the number of broadcast packets that will be allowed to pass through the Managed Media Converter.

Media Port1 (Type: 10/100TX)

Port Mode: Auto, 10HD, 10FD, 100HD, or 100FD (HD = Half Duplex, FD = Full Duplex)

Flow Control: Enable or Disable

Broadcast Storm Protection: Disable or Enable

Output Rate: Full, 6%, 12%, 18%, 24%, 30%, 36%, 42%, 48%, 54%, 60%, 66%, 72%, 78%, 84%, or 90%

Input Rate: Full, 6%, 12%, 18%, 24%, 30%, 36%, 42%, 48%, 54%, 60%, 66%, 72%, 78%, 84%, or 90%

NOTE: If Output Rate or Input Rate is set to any setting other than FULL Flow Control must be enabled.

Media Port2 (Type: 100FX)

Port Mode: 100HD or 100FD

Broadcast Storm Protection: Disable or Enable

If Broadcast Storm Protection is Enabled the Managed Media Converter will not pass excessive broadcast packets. This is a way to prevent a broadcast storm from passing between two networks.

NOTE: Pressing the Apply button will apply the settings on this screen to the Managed Media Converter. You must press Save to store these settings to non-volatile memory.

RMON Statistics

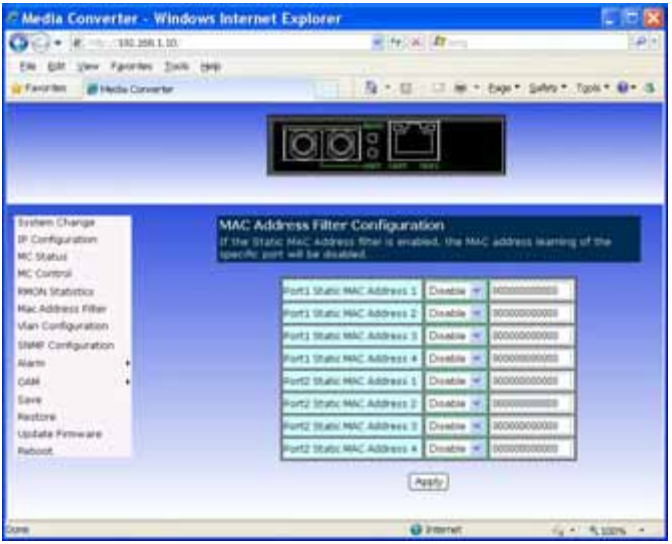
Media port1 Tx

Click on Media port1 Tx to show the RMON Statistics of Media port1 Tx. Press the Reset button to reset the RMON Statistics of Media port1 Tx on this screen.

Media port2 Fx

Click on Media port2 Fx to show the RMON Statistics of Media port2 Fx. Press the Reset button to reset the RMON Statistics of Media port2 Fx on this screen.

MAC Address Filter



Port1 Static MAC Address 1 - 4

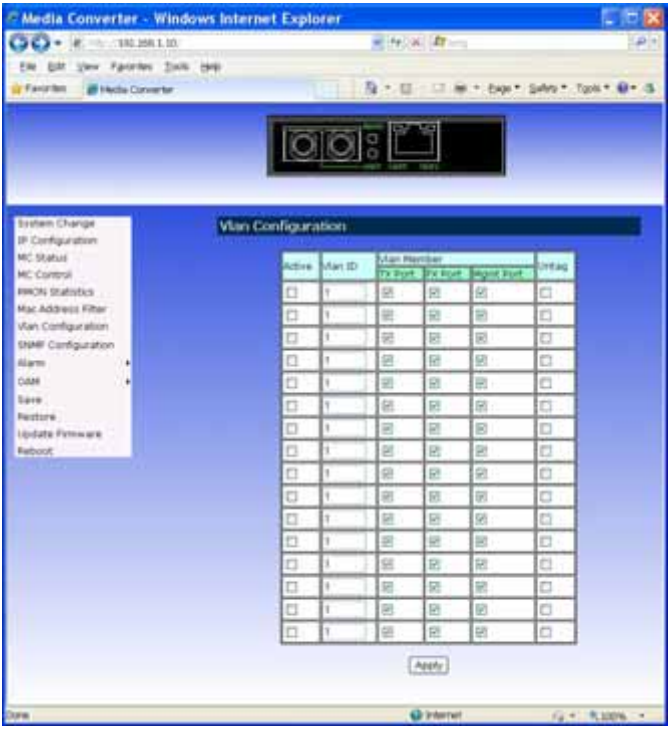
Disable or Enable and type in the MAC addresses to be filtered for Port 1.

Port2 Static MAC Address 1 - 4

Disable or Enable and type in the MAC addresses to be filtered for Port 2.

If one or more MAC addresses are enabled the filter process is turned on and only those MAC addresses that are enabled will be passed through the Managed Media Converter. All packets with MAC addresses that are not listed will be dropped. If there is not any MAC address disabled then all MAC addresses will be passed through the Managed Media Converter.

VLAN Configuration



Active

Unmark or mark checked box in Active column to Disable or Enable VLAN configuration.

Vlan ID

Type VLAN ID in this field in Vlan ID column.

Vlan Member: TX Port, FX Port, Mgmt Port

Unmark or mark checked box in TX Port, FX Port, or Mgmt Port column to add TX Port, FX Port, or Mgmt Port in a VLAN group.

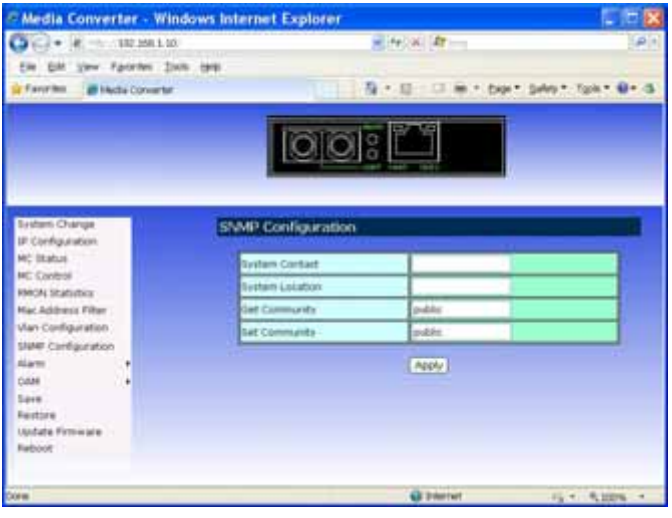
NOTE: You must include at least one TX Port or FX Port with Mgmt Port in a VLAN group to manage the device from TX Port or FX Port.

Untag

Unmark or mark checked box in Untag column to Enable tagged or untagged VLAN.

NOTE: The device can have at most up to one untagged VLAN.

SNMP Configuration



System Contact

Enter the name of the person in charge of this system.

System Location

The location of this system.

Get Community

If the SNMP Network management station only knows the get community string, it can only read MIBs.

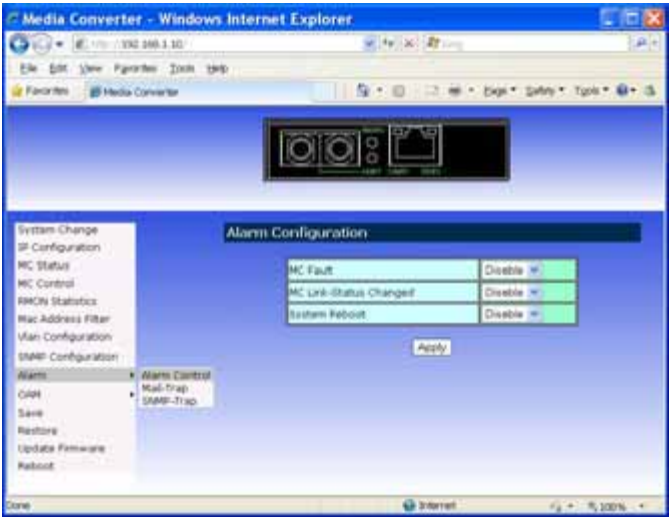
The default get and set community string for the media converter are public.

Set Community

If the SNMP Network management station only knows the set community string, it can read and write to the MIBs.

The default get and set community string for the media converter are public.

Alarm



Alarm Control

You can Enable or Disable alarms for the following conditions:

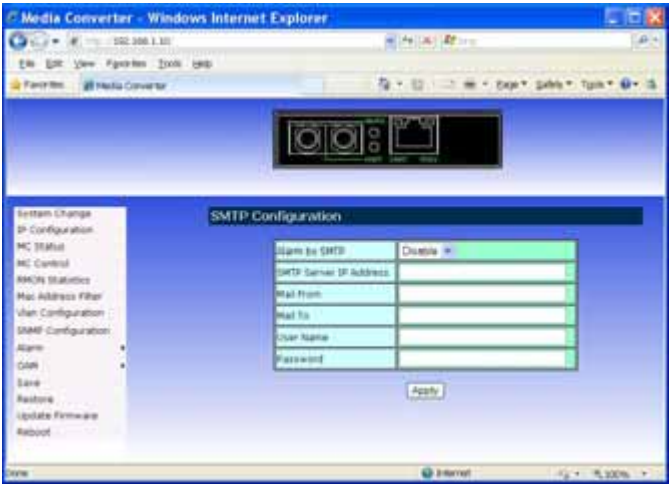
MC Fault (Trap an alarm if the internal communication fails such that the Managed Media Converter has an internal fault, this alarm will also be indicated if there is total failure of the link between two Managed Media Converters such that there will be a Far-End-Failure).

MC Link-Status Changed (Trap an alarm if the status of the link between two Managed Media Converter units changes).

System Reboot (Trap an alarm if the Managed Media Converter performs a reboot for any reason).

Mail-Trap

When Alarms are enabled the Managed Media Converter can be set to send an email when an alarm occurs.



Alarm by SMTP – Enable or Disable (Enable or Disable sending an Email when an alarm occurs).

SMTP Server IP Address: The IP address of the SMTP server that will send the alarm.

Mail From: The “from” email address.

Mail to: The email address where the alarm is to be sent.

User Name: The user name for the SMTP Server Account.

Password: The password of the SMTP Server Account.

SNMP Trap

You can turn SNMP Traps On or Off for:

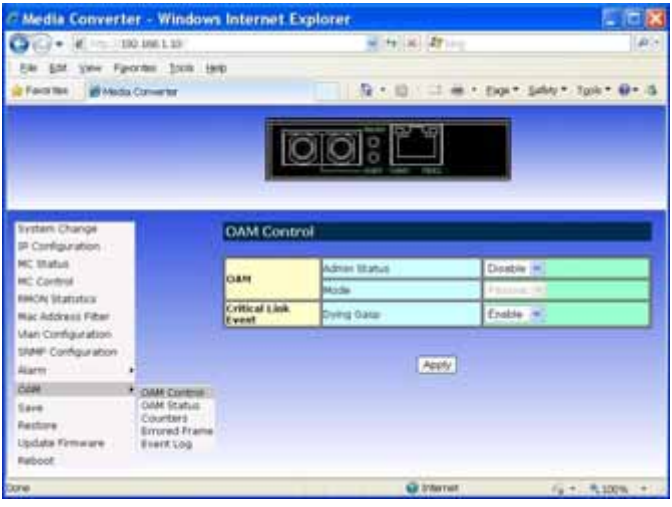
MC Fault, MC Link-Status Changed, or System Reboot.

You can input Trap Host 1 - 4 IP Addresses.

You can choose Trap Host Version V1 or V2.

You can input Community Name 1 – 4.

OAM



OAM Control

- OAM:

  Admin Status: Choose Enable or Disable to enable or disable OAM administration.

  Mode: This Managed Media Converter is an OAM client and is set to the passive mode. In passive mode, a device cannot initiate discovery, inquire about variables, or set loopback mode.

- Critical Link Event:

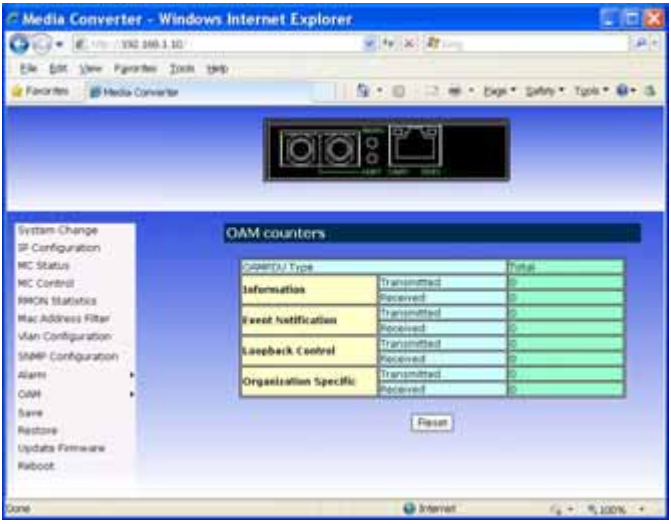
  Dying Gasp: Choose Enable or Disable to enable or disable the Managed Media Converter to detect dying gasp event and send dying gasp event notification OAMPDU (OAM protocol data units).

OAM Status

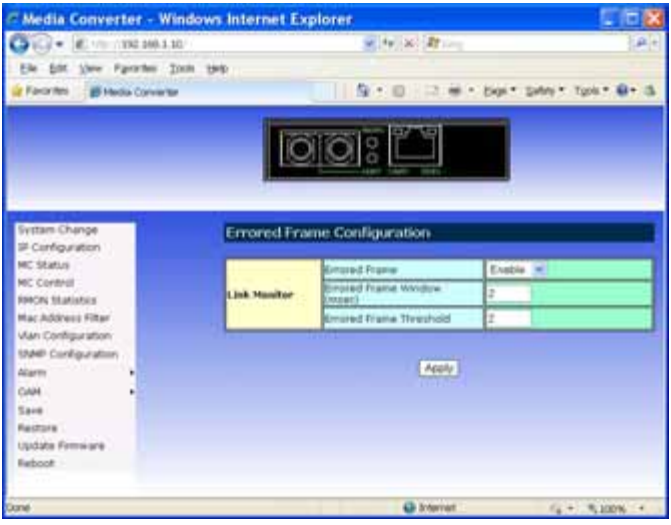
This screen shows the OAM status of the Managed Media Converter.

Counters

This screen shows the OAM counters of the Managed Media Converter. Press the Reset button to reset the OAM counters of the Managed Media Converter on this screen.



Errored Frame



Errored Frame: Choose Enable or Disable to enable or disable errored frame function. Errored frame is the number of error frames in the specific period.

Errored Frame Window (msec): Period (in terms of milliseconds) for error frame event detection.

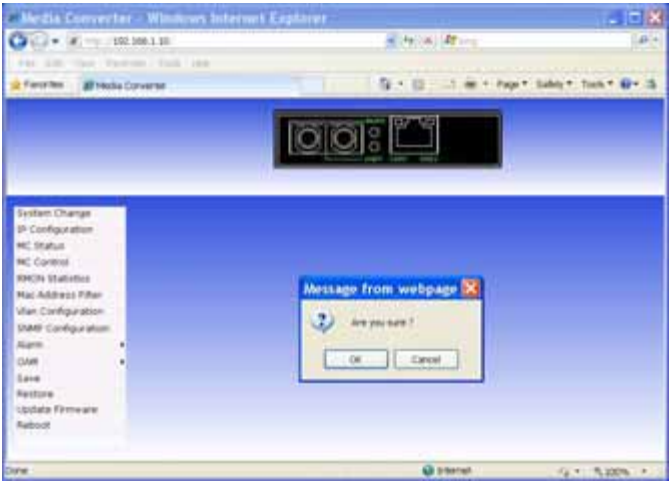
Errored Frame Threshold: The error threshold that triggers an error frame event.

Event Log

This screen shows the Event Log of the Managed Media Converter.

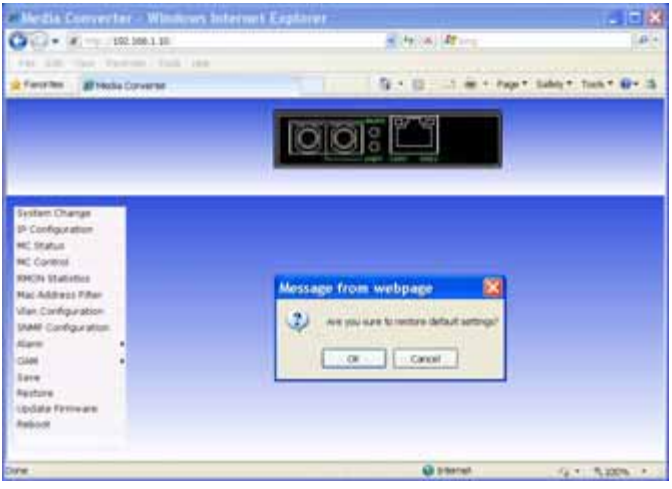
Save

Selecting to SAVE writes all changes that have been made into non-volatile memory. When the Managed Media Converter is turned off and back on, it retains the configuration that was last saved.



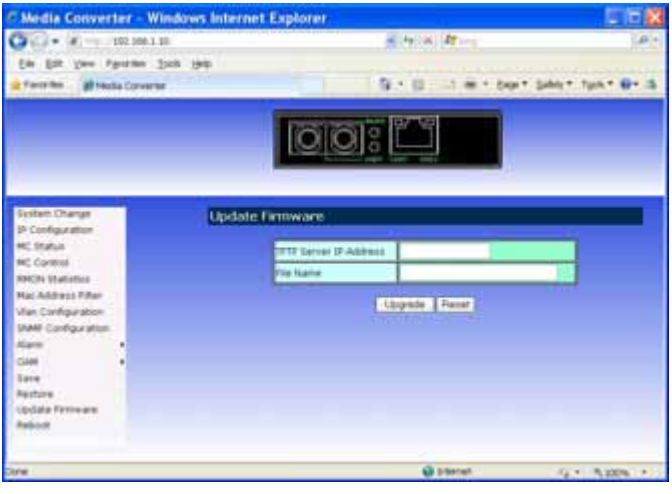
Press *OK* button, as shown above and all changed configurations for the Managed Media Converter will be saved. All changed configurations for Managed Media Converter will not be saved if you press *Cancel* button.

Restore



Press *OK* button, as shown above to restore the Managed Media Converter to default settings. Press *Cancel* button to cancel the Managed Media Converter restored to default settings.

Update Firmware



Please type in the TFTP Server IP Address the address of the computer used as he TFTP server where the new firmware resides.

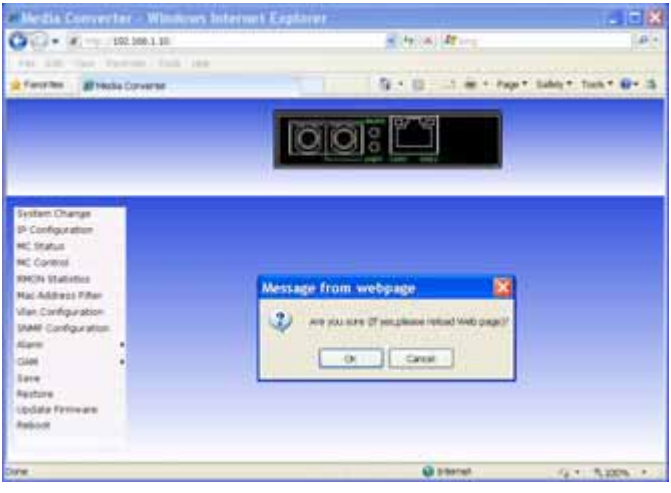
Please type in the File Name of the update firmware.

Press the *Upgrade* button to start uploading the new firmware.

Pressing the Reset button will reset the values displayed in this screen.

Reboot

After Managed Media Converter has rebooted successfully, you need to reload web page and log in with the password before you can access the new page again.



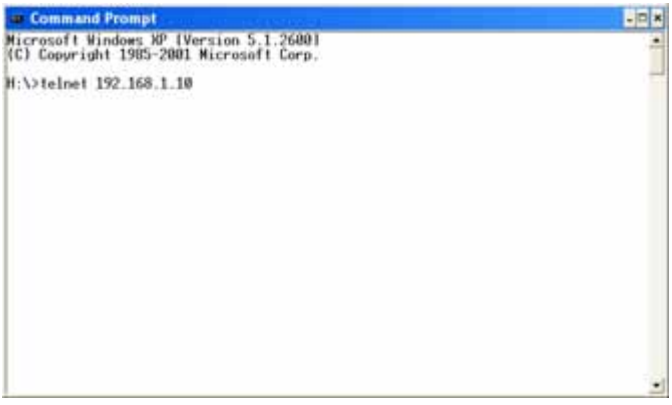
Technical Specification

Managed Media Converter

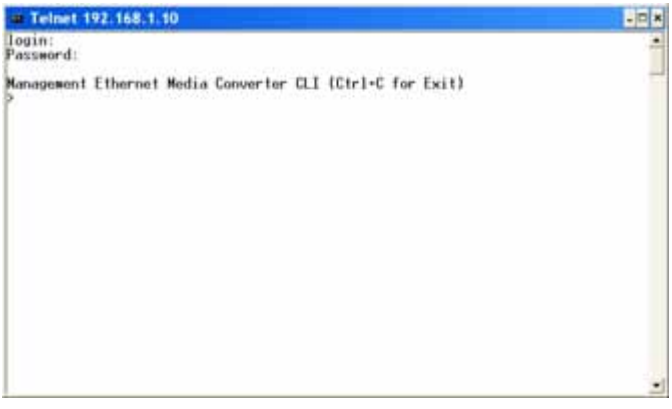
Applicable Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX, 100Base-FX
Ports	1-port 10/100Base-TX with RJ-45 connector 1-port 100Base-FX with fiber optic connector
Speed	100Base-TX, 100Base-FX: 200Mbps full-duplex 100Mbps half-duplex
	10Base-T: 20Mbps full-duplex 10Mbps half-duplex
Performance	148,810pps forwarding rate for 100Mbps 14,880pps forwarding rate for 10Mbps
Port LED Indicators	Unit: PW/FA TX: LK/AT, FD/CL FX: LK/AT
Dimensions	80mm (W) x 121.8mm (D) x 20mm (H) (3.15” (W) x 4.8” (D) x 0.79” (H))
Weight	150g (0.33lb.)
Power Input	0.27A @ 12VDC
Power Consumption	3.24W Max.
Operating Temperature	0℃ ~ 45℃ (32℉ ~ 113℉)
Storage Temperature	-10℃ ~ 70℃ (14℉ ~ 158℉)
Humidity	5 ~ 95%, non-condensing
Emissions	FCC Part 15 Class A, CE Mark Class A

Appendix A – Telnet command set

Start a Telnet session and login to the Managed Media Converter if you use Telnet to manage the Managed Media Converter. The default IP address of the Managed Media Converter is (192.168.1.10). Telnet to Managed Media Converter using “telnet 192.168.1.10” command.



Default login is “null” and default password is “null”.



Type in “?” or “h” to get help screen for all of the Telnet commands.

Description	Get media converter status
Syntax	get mc-status
Parameters	get (g)
	mc-status (ms)

Description	Get media converter configuration
Syntax	get mc-config
Parameters	get (g)
	mc-config (mc)

Description	Get networking configuration
Syntax	get netconf
Parameters	get (g)
	netconf (nc)

Description	Get system information
Syntax	get sysinfo
Parameters	get (g)
	sysinfo (si)

Description	Get SNMP configuration
Syntax	get snmpconf
Parameters	get (g)
	snmpconf (sc)

Description	Get alarm configuration
Syntax	get alarmconf config
Parameters	get (g)
	alarmconf (ac)
	config (cf)

Description	Get smtp configuration
Syntax	get alarmconf smtpconfig
Parameters	get (g)
	alarmconf (ac)
	smtpconfig (sc)

Description	Get snmptrap configuration
Syntax	get alarmconf snmptrap
Parameters	get (g)
	alarmconf (ac)
	snmptrap (st)

Description	Show oam status
Syntax	get oam status
Parameters	get (g)
	oam (om)
	status (st)

Description	Show brief oam status
Syntax	get oam status brief
Parameters	get (g)
	oam (om)
	status (st)
	brief (b)

Description	Show oam counter
Syntax	get oam counter
Parameters	get (g)
	oam (om)
	counter (ct)

Description	Show oam event log
Syntax	get oam event-log
Parameters	get (g)
	oam (om)
	event-log (el)

Description	Get vlan status
Syntax	get vlan
Parameters	get (g)
	vlan (vn)

Description	Get RMON statistics of the fiber port
Syntax	get rmon fx
Parameters	get (g)
	rmon (rn)
	fx (f)

Description	Get RMON statistics of the copper port
Syntax	get rmon tp
Parameters	get (g)
	rmon (rn)
	tp (t)

Description	Set operating mode for media converter
Syntax	set mc-mode
Parameters	set (s)
	mc-mode (mm)

Description	Set port mode for media converter port1 (copper port)
Syntax	set port-mode
Parameters	set (s)
	port-mode (pm)

Description	Set port rate for media converter port1 (copper port)
Syntax	set port-rate
Parameters	set (s)
	port-rate (pr)

Description	Set networking configuration
Syntax	set netconf
Parameters	set (s)
	netconf (nc)

Description	Set device name and password
Syntax	set sysadmin
Parameters	set (s)
	sysadmin (sa)

Description	Set SNMP configuration
Syntax	set snmpconf syscont <arg1> sysloc <arg2> getcomm <arg3> setcomm <arg4>
Parameters	set (s)
	snmpconf (sc)
	syscont: System Contact
	sysloc: System Location
	getcomm: Get Community
	setcomm: Set Community

NOTE: arg represents argument.

Description	Enable or disable media converter fault alarm
Syntax	set alarmconf config mcfault enable/disable
Parameters	set (s)
	alarmconf (ac)
	config (cf)
	mcfault: Media Converter Fault

Description	Enable or disable media converter link-status changed alarm
Syntax	set alarmconf config lkchange enable/disable
Parameters	set (s)
	alarmconf (ac)
	config (cf)
	lkchange: Media Converter Link-Status Changed

Description	Enable or disable media converter system reboot alarm
Syntax	set alarmconf config reboot enable/disable
Parameters	set (s)
	alarmconf (ac)
	config (cf)
	reboot: System Reboot

Description	Enable or disable SMTP alarm configuration
Syntax	set alarmconf smtpconfig smtp enable/disable
Parameters	set (s)
	alarmconf (ac)
	smtpconfig (sc)
	smtp: Alarm by SMTP

Description	Set SMTP server IP address
Syntax	set alarmconf smtpconfig serverip <SMTP Server IP Address>
Parameters	set (s)
	alarmconf (ac)
	smtpconfig (sc)
	serverip <SMTP Server IP Address>: SMTP server IP address

Description	Set E-mail address that alarm is mailed from
Syntax	set alarmconf smtpconfig mailfrom <E-Mail Address>
Parameters	set (s)
	alarmconf (ac)
	smtpconfig (sc)
	mailfrom <E-Mail Address>: E-mail address that alarm is mailed from

Description	Set E-mail address that alarm is mailed to
Syntax	set alarmconf smtpconfig mailto <E-Mail Address>
Parameters	set (s)
	alarmconf (ac)
	smtpconfig (sc)
	mailto <E-Mail Address>: E-mail address that alarm is mailed to

Description	Set user name for SMTP server
Syntax	set alarmconf smtpconfig username <User Name>
Parameters	set (s)
	alarmconf (ac)
	smtpconfig (sc)
	username <User Name>: User name for SMTP server

Description	Set password for SMTP server
Syntax	set alarmconf smtpconfig password <Password>
Parameters	set (s)
	alarmconf (ac)
	smtpconfig (sc)
	password <Password>: Password for SMTP server

Description	Turn media converter fault snmptrap on or off
Syntax	set alarmconf snmptrap trapconf mcfault on/off
Parameters	set (s)
	alarmconf (ac)
	snmptrap (st)
	trapconf (tc)
	mcfault: Media Converter Fault

Description	Turn media converter link-status changed snmptrap on or off
Syntax	set alarmconf snmptrap trapconf lkchange on/off
Parameters	set (s)
	alarmconf (ac)
	snmptrap (st)
	trapconf (tc)
	lkchange: Media Converter Link-Status Changed

Description	Turn media converter system reboot snmptrap on or off
Syntax	set alarmconf snmptrap trapconf reboot on/off
Parameters	set (s)
	alarmconf (ac)
	snmptrap (st)
	trapconf (tc)
	reboot: System Reboot

Description	Set traphost configuration
Syntax	set alarmconf snmptrap traphost1 <th1/th2/th3/th4> traphost <IP Address> version <1/2> comm <Community Name>
Parameters	set (s)
	alarmconf (ac)
	snmptrap (st)
	traphost1 <th1/th2/th3/th4>: Trap Host 1, 2, 3, 4
	traphost <IP Address>: Trap Host IP Address
	version <1/2>: SNMP version 1 or 2
	comm <Community Name>: Community Name 1, 2, 3, 4

Description	Add a new VLAN
Syntax	set vlan add vid <1-4095> [FX] [TX]
Parameters	set (s)
	vlan (vn)
	add (ad)
	vid <1-4095>: VLAN ID 1-4095
	[FX]: FX Port
	[TX]: TX Port

Description	Remove existed VLAN
Syntax	set vlan rem vid <1-4095>
Parameters	set (s)
	vlan (vn)
	rem (rm)
	vid <1-4095>: VLAN ID 1-4095

Description	Remove existed all VLAN
Syntax	set vlan rem all
Parameters	set (s)
	vlan (vn)
	rem (rm)
	all: existed all VLAN

Description	Edit existed VLAN
Syntax	set vlan edit vid <1-4095> [FX] [TX]
Parameters	set (s)
	vlan (vn)
	edit (ed)
	vid <1-4095>: VLAN ID 1-4095
	[FX]: FX Port
	[TX]: TX Port

Description	Set existed VLAN to management VLAN
Syntax	set vlan mgmtvlan vid <1-4095>
Parameters	set (s)
	vlan (vn)
	mgmtvlan (mg)
	vid <1-4095>: VLAN ID 1-4095

Description	Set existed VLAN to be management VLAN
Syntax	set vlan mgmtvlan vid <1-4095>
Parameters	set (s)
	vlan (vn)
	mgmtvlan (mg)
	vid <1-4095>: VLAN ID 1-4095

Description	Set existed VLAN to be tagged VLAN
Syntax	set vlan tag vid <1-4095>
Parameters	set (s)
	vlan (vn)
	tag (tg)
	vid <1-4095>: VLAN ID 1-4095

Description	Enable or disable oam status operation
Syntax	set oam status enable/disable
Parameters	set (s)
	oam (om)
	status (st)
	enable (e)
	disable (d)

Description	Clear oam counters
Syntax	set oam counter clear
Parameters	set (s)
	oam (om)
	counter (ct)
	clear (c)

Description	Enable or disable oam dying gasp notification
Syntax	set oam dying-gasp enable/disable
Parameters	set (s)
	oam (om)
	dying-gasp (dg)
	enable (e)
	disable (d)

Description	Enable oam link monitor operation
Syntax	set oam link-monitor enable [window <1-60>] [threshold <1-65535>]
Parameters	set (s)
	oam (om)
	link-monitor (lm)
	enable (e)
	window <1-60>: Errored Frame Window (msec) 1-60
	threshold <1-65535>: Errored Frame Threshold 1-65535

Description	Disable oam link monitor operation
Syntax	set oam link-monitor disable
Parameters	set (s)
	oam (om)
	link-monitor (lm)
	disable (d)

Description	Clear RMON counters of the fiber port
Syntax	set rmon fx
Parameters	set (s)
	rmon (rn)
	fx (f)

Description	Clear RMON counters of the copper port
Syntax	set rmon tp
Parameters	set (s)
	rmon (rn)
	tp (t)

Description	Save configuration of agent
Syntax	Save agent
Parameters	save (sa)
	agent (a)

Description	Update firmware by TFTP server
Syntax	update <TFTP Server IP Address> <File Name>
Parameters	update (u)
	<TFTP Server IP Address>: IP address of TFTP server
	<File Name>: File name of firmware

Description	Reboot the device
Syntax	reboot
Parameters	reboot (r)

Description	Restore setting to factory default
Syntax	restore
Parameters	restore (rs)